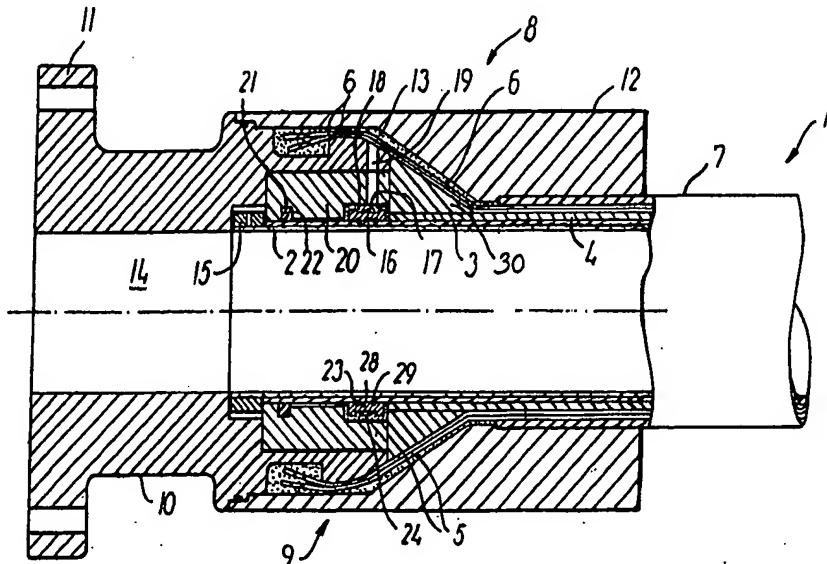




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ :	A1	(11) International Publication Number: WO 99/19654
F16L 33/01		(43) International Publication Date: 22 April 1999 (22.04.99)
(21) International Application Number: PCT/DK97/00450		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).
(22) International Filing Date: 14 October 1997 (14.10.97)		
(71) Applicant (for all designated States except US): NKT CABLES A/S [DK/DK]; Ntk allé 1, DK-2605 Brøndby (DK).		
(72) Inventor; and		
(75) Inventor/Applicant (for US only): POUL, Erik, Braad [DK/DK]; Teglværksvej 24, DK-3460 Birkerød (DK).		
(74) Agent: HOLME, Edvard; Holme Patent a/s, Vesterbrogade 20, DK-1620 Copenhagen V (DK).		
		Published With international search report.

(54) Title: A FLEXIBLE PIPE WITH AN ASSOCIATED END-FITTING



(57) Abstract

A flexible pressure pipe (1), with an associated end-fitting (9) having an axially extending through opening (14), is of a non-bonded structure comprising a number of layers (2, 3, 4, 5, 7) including an extruded polymer inner lining (3) extending into the through opening (14). In the outer surface of the end part of the inner lining two annular grooves (23) are formed by rolling and two opposing grooves (28) are formed in the inner surface of the lock ring (27). By fitting two circlips (29) into both the grooves (23) in the inner lining (3) and in the lock ring (27), the latter is attached to the lining (3), whereafter the lock ring (27) is fitted into a holding groove (17) in the wall of the through opening (14) of the end-fitting (9). The joint between the inner lining (3) of the flexible pressure pipe (1) and the end-fitting (9) is a simple and cheap structure and provides a greater resistance to axial tensile loads acting on the inner lining (3) than has been known before.

BEST AVAILABLE COPY

A FLEXIBLE PIPE WITH AN ASSOCIATED END-FITTING

Patent number: WO9919654

Publication date: 1999-04-22

Inventor: POUL ERIK BRAAD (DK)

Applicant: NKT CABLES AS (DK);; POUL ERIK BRAAD (DK)

Classification:

- international: F16L33/01

- european: F16L33/01

Application number: WO1997DK00450 19971014

Priority number(s): WO1997DK00450 19971014

Also published as:

EP1023552 (A1)

US6273142 (B1)

CA2306494 (A1)

EP1023552 (B1)

Cited documents:

DE225220

DE810452

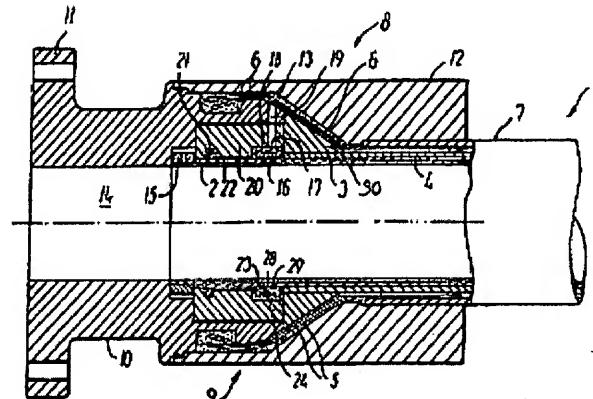
US959187

GB891611

[Report a data error here](#)

Abstract of WO9919654

A flexible pressure pipe (1), with an associated end-fitting (9) having an axially extending through opening (14), is of a non-bonded structure comprising a number of layers (2, 3, 4, 5, 7) including an extruded polymer inner lining (3) extending into the through opening (14). In the outer surface of the end part of the inner lining two annular grooves (23) are formed by rolling and two opposing grooves (28) are formed in the inner surface of the lock ring (27). By fitting two circlips (29) into both the grooves (23) in the inner lining (3) and in the lock ring (27), the latter is attached to the lining (3), whereafter the lock ring (27) is fitted into a holding groove (17) in the wall of the through opening (14) of the end-fitting (9). The joint between the inner lining (3) of the flexible pressure pipe (1) and the end-fitting (9) is a simple and cheap structure and provides a greater resistance to axial tensile loads acting on the inner lining (3) than has been known before.



Data supplied from the **esp@cenet** database - Worldwide

BEST AVAILABLE COPY